PRE-084 (hydrochloride)

Item No. 9001329

CAS Registry No.: 75136-54-8
Formal Name: 1-phenyl-2-(4-morpholinyl)ethyl ester-cyclohexanecarboxylic acid, monohydrochloride
MF: C_{19}H_{27}NO_{3} • HCl
FW: 353.9
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures

For long term storage, we suggest that PRE-084 (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

PRE-084 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the PRE-084 (hydrochloride) in the solvent of choice. PRE-084 (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of PRE-084 (hydrochloride) in these solvents is approximately 1.1 mg/ml.

PRE-084 (hydrochloride) has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Sigma receptors are a structurally unique class of intracellular proteins that can be activated by the following agonists: cocaine, morphine/diacepamethamine, dextromethorphan, and the herbal antidepressant berberin.1 PRE-084 is a high affinity, sigma receptor agonist, selective for the σ1 and 13,091 nM for the σ2 receptors, respectively.2 It is a potent ligand of the σ receptor (IC_{50} = 44 nM) without appreciable affinity for PCP receptors (IC_{20} > 100,000 nM).2 PRE-084 has nootropic and antidepressant actions in vivo, as well as antissuve and reinforcing effects.3-6

References

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/9001329

**WARNING:** THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**MATERIAL SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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